



Panel Discussion

Systems of innovation for development: the quest for alternative sources of energy

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Issues for the debate

The economic performance of the societies and the well being in these, are related with the capacity of the productive and technological systems for the transformation of the energy in goods and services.

The contemporary energy global crisis confronts to the economies of the world to revalue the importance that has the energy in the process of adaptation and evolution of the societies, but also in the process of economic development. The institutional architecture of the developed economies, the productive systems and the long run technological trajectories within has as basis paths of high-energy consumption that has depended on the existence of low cost supply sources. In a scenario where the economic success depends on the capacity for the energy transformation, the developing countries have generated imitation processes and adaptation of trajectories with a growing vulnerability.

In a context where the production costs of the energy based in the hydrocarbons rise, and where the social cost of the emission of pollutants is an important institutional constraint, it is necessary to reorient the public policies and the structure of the institutional incentives to accelerate the availability of alternative energy supply sources with lower relative costs of production, but also to generate increasingly efficient trajectories among firms and the final consumers.

Based in the above-mentioned, the panel will discuss about the following questions:

1. The importance of the energy in the development process and the different roles of the developed and less developed economies in the solution of the world energy problems.
2. The social and economic implications of the applied innovation to the development of alternative energy sources.
3. The design of the institutional framework to facilitate the transition towards more efficient consumption patterns.
4. Public policies and incentives to building cooperation networks of S&T in energy.

Participants:

Panelist	Presentation	Country
Rainer Waltz	How regulation influences innovation: an indicator based approach for the case of renewable energy technologies	Germany
Nicolás Domínguez-Vegara	On the Mexican energy transition from fossil to renewable fuels	Mexico
André Tosi – Furtado	Institutional arrangements and Science & Technology policies in the energy sector	Brazil
Adrián Fernández	Biofuels and the social opportunity costs of the innovation	Mexico. President of the National Institute of Ecology.